

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P841805

Luminaire Tested: **ARCH4-230-727-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-230-727-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33567 lumens
Efficiency: N/A
Efficacy: 145.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 231.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

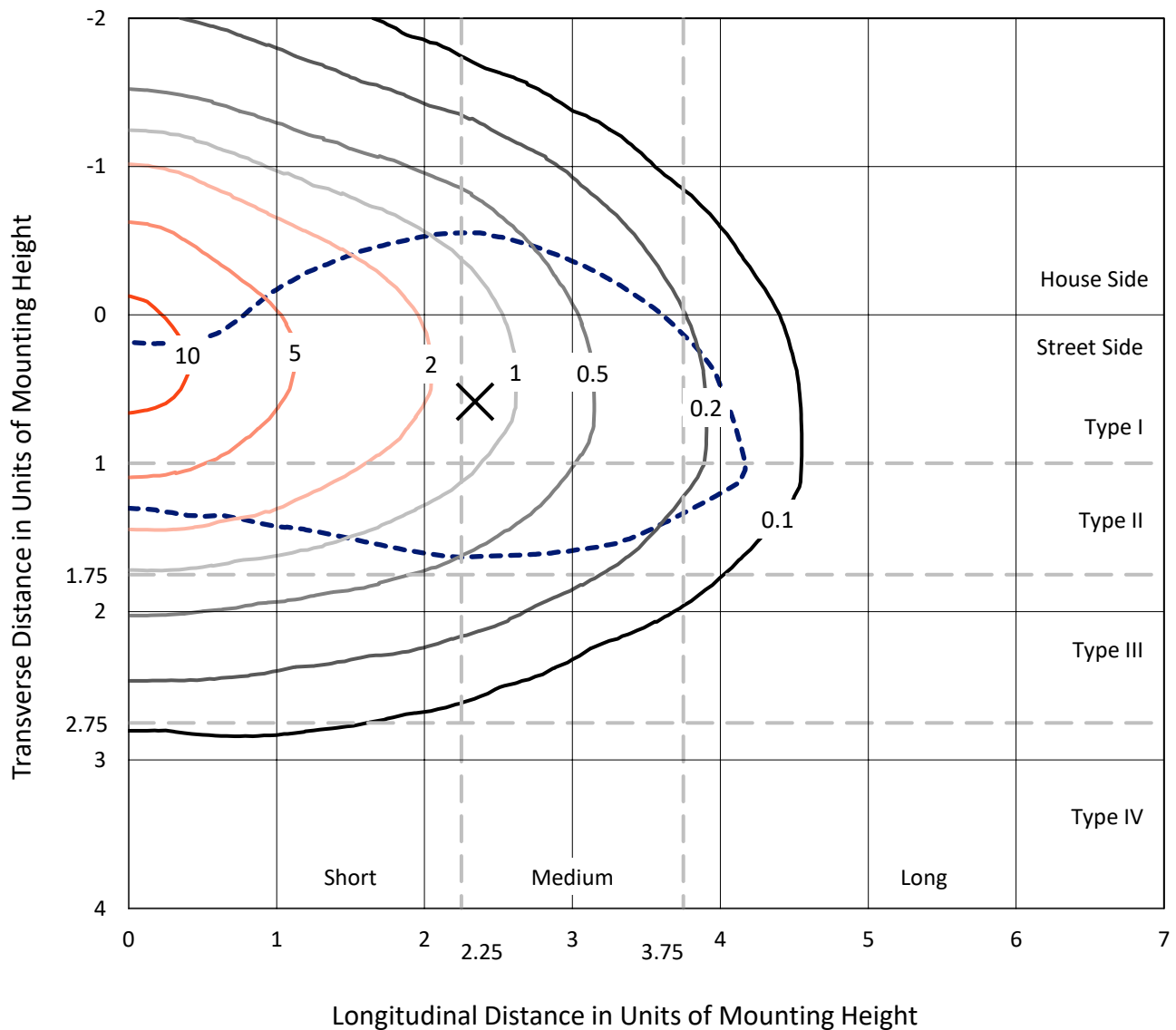


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Iso-Footcandle Lines of Horizontal Illumination

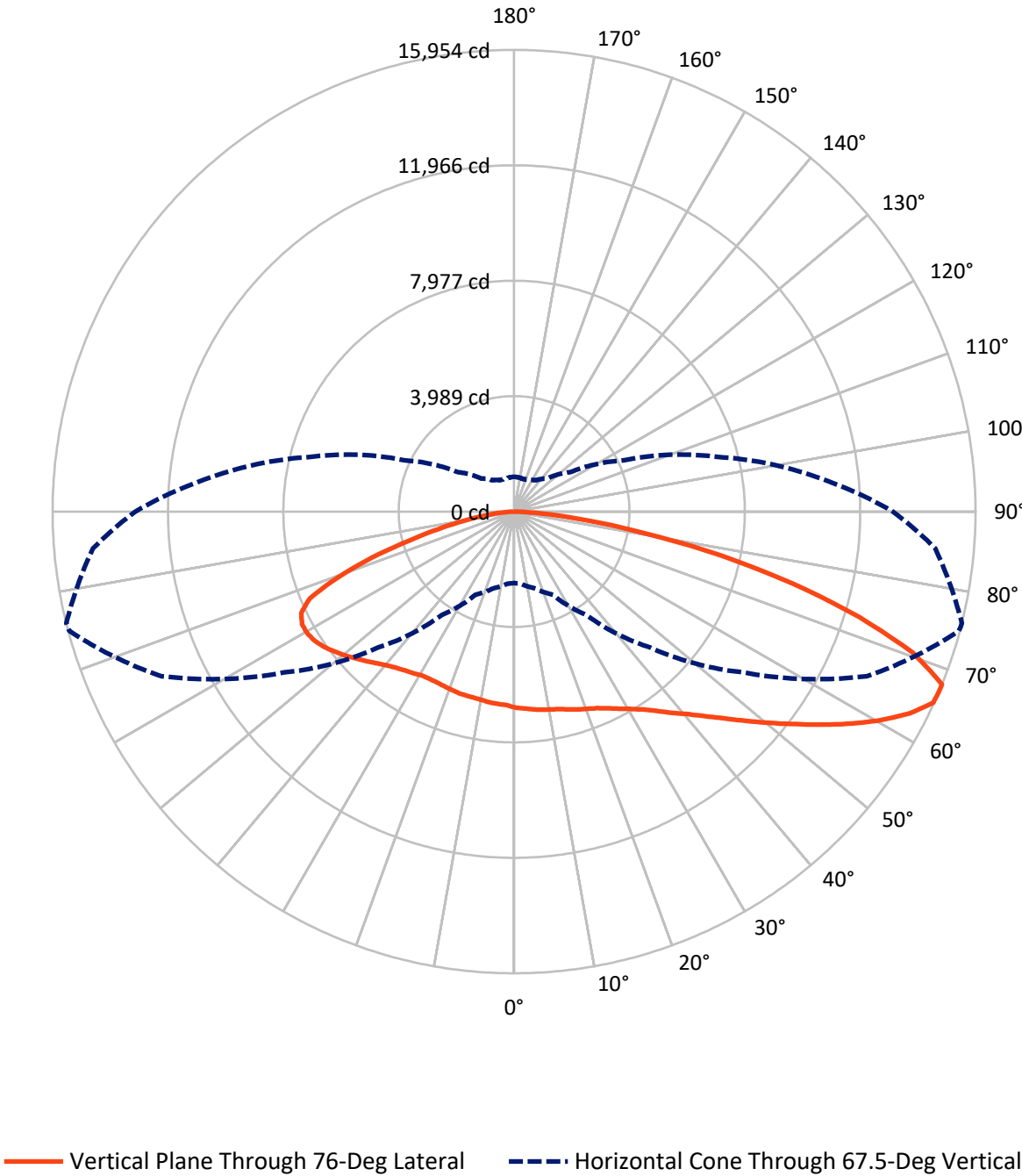
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11342.5	0.0	11342.5
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	22224.5	0.0	22224.5
	% Fixture	66.2	0.0	66.2
Total	Lumens	33567.0	0.0	33567.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	653.8	1.9
10°-20°	1998.9	6.0
20°-30°	3396.1	10.1
30°-40°	4832.2	14.4
40°-50°	6102.9	18.2
50°-60°	6607.6	19.7
60°-70°	6145.8	18.3
70°-80°	3300.8	9.8
80°-90°	528.9	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	33567.0	100.0
0°-180°	33567.0	100.0

Coefficient of Utilization



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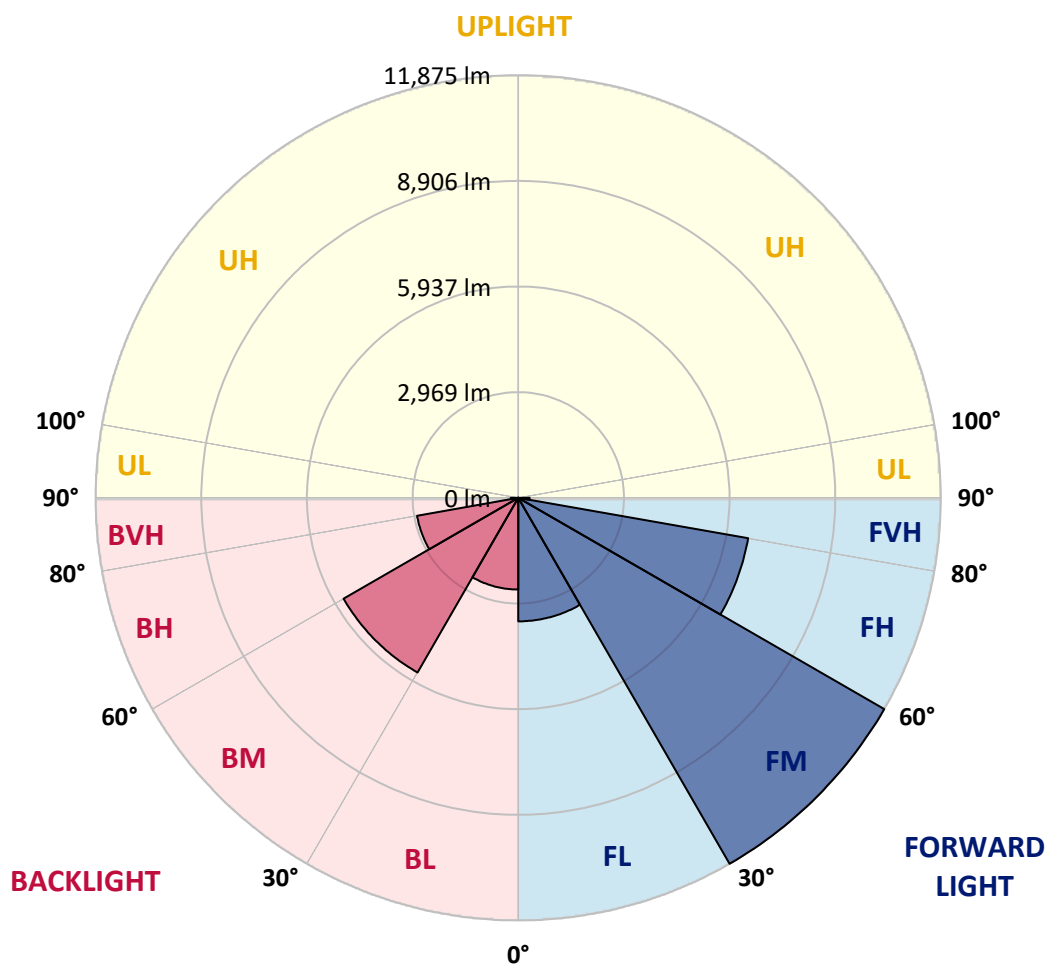
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3471.2	10.3			
FM	(30°-60°)	11874.7	35.4			
FH	(60°-80°)	6558.7	19.5			G3/7500
FVH	(80°-90°)	319.9	1.0			G3/500
BL	(0°-30°)	2577.6	7.7	B4/5000		
BM	(30°-60°)	5668.0	16.9	B4/8500		
BH	(60°-80°)	2887.9	8.6	B4/5000		G4/5000
BVH	(80°-90°)	209.0	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5
2.5°	6986.1	6973.7	6923.8	6930.0	6930.0	6923.8	6849.0	6817.9	6817.9	6811.6	6743.1
5°	7235.4	7216.7	7160.6	7148.2	7123.2	7092.1	6973.7	6905.1	6873.9	6867.7	6774.2
7.5°	7528.3	7503.4	7434.8	7397.4	7335.1	7254.1	7104.5	6998.6	6923.8	6917.6	6786.7
10°	7821.2	7796.3	7715.3	7646.7	7559.5	7428.6	7235.4	7079.6	6961.2	6948.7	6792.9
12.5°	8170.2	8145.3	8045.6	7958.3	7827.4	7652.9	7397.4	7185.5	7023.5	7004.8	6811.6
15°	8537.9	8500.5	8400.8	8301.1	8139.0	7914.7	7609.3	7328.9	7123.2	7092.1	6867.7
17.5°	8843.3	8793.4	8712.4	8612.7	8432.0	8170.2	7821.2	7472.2	7216.7	7191.8	6923.8
20°	9105.0	9067.6	8980.4	8886.9	8693.7	8407.0	8020.6	7615.6	7304.0	7272.8	6967.4
22.5°	9354.3	9304.4	9254.6	9186.0	8974.1	8656.3	8251.2	7790.1	7416.1	7378.7	7023.5
25°	9641.0	9584.9	9566.2	9528.8	9279.5	8955.4	8531.7	8008.2	7571.9	7528.3	7123.2
27.5°	9996.2	9933.9	9896.5	9896.5	9597.3	9260.8	8830.8	8263.7	7752.7	7715.3	7247.9
30°	10370.1	10295.3	10239.2	10239.2	9902.7	9566.2	9123.7	8519.2	7958.3	7914.7	7409.9
32.5°	10700.4	10625.6	10563.3	10557.1	10208.1	9871.6	9429.1	8799.6	8207.6	8151.5	7609.3
35°	10955.9	10887.4	10831.3	10843.8	10513.5	10183.2	9771.8	9173.6	8519.2	8456.9	7871.1
37.5°	11111.7	11086.8	11055.6	11099.3	10793.9	10482.3	10127.1	9535.0	8874.4	8818.3	8195.1
40°	11192.7	11174.0	11298.7	11354.8	11030.7	10750.3	10482.3	9908.9	9260.8	9198.5	8569.1
42.5°	11311.2	11467.0	11516.8	11504.3	11205.2	10955.9	10806.4	10314.0	9715.8	9659.7	9017.8
45°	10887.4	10850.0	11124.2	11273.8	11217.7	11086.8	11111.7	10800.1	10245.5	10189.4	9535.0
47.5°	10320.3	10270.4	10426.2	10793.9	11012.0	11136.7	11385.9	11304.9	10856.2	10806.4	10139.5
50°	9123.7	9192.3	9771.8	10264.2	10694.2	11124.2	11616.5	11847.1	11529.3	11479.4	10787.7
52.5°	7796.3	7864.8	8469.3	9603.6	10307.8	11030.7	11784.8	12389.3	12258.4	12202.3	11479.4
55°	6830.3	6979.9	7665.4	8488.0	9759.4	10737.8	11884.5	12943.9	13043.7	12993.8	12233.5
57.5°	5870.6	5982.8	6500.0	7229.2	9011.5	10226.8	11878.3	13461.2	13866.3	13816.4	13000.0
60°	4742.6	4885.9	5297.2	6082.5	8014.4	9616.0	11703.8	13866.3	14657.8	14620.4	13741.6
62.5°	3969.8	4013.4	4306.3	4985.6	6730.6	8843.3	11311.2	14084.4	15374.4	15349.5	14408.5
65°	3197.0	3203.3	3471.2	4038.4	5490.4	7883.5	10644.3	14003.4	15916.6	15929.1	14888.3
67.5°	2467.9	2499.0	2742.1	3172.1	4362.4	6637.1	9690.8	13455.0	15922.9	15954.0	14614.1
70°	1707.6	1732.5	2100.2	2517.7	3371.5	5291.0	8400.8	12002.9	14614.1	14639.1	13099.7
72.5°	1202.8	1215.2	1607.9	2012.9	2636.2	3988.5	6338.0	9927.6	12457.8	12476.5	11018.2
75°	897.4	909.9	1134.2	1526.8	2019.2	2760.8	4331.3	7603.1	9952.6	9952.6	8699.9
77.5°	635.7	641.9	735.4	1053.2	1346.1	1863.4	2605.0	4979.4	7304.0	7316.4	6338.0
80°	430.0	436.2	479.9	710.5	841.3	1009.6	1414.7	2611.2	4605.5	4624.2	4025.9
82.5°	224.4	236.8	268.0	361.5	423.8	560.9	729.1	1327.4	2548.9	2598.8	2418.0
85°	87.2	87.2	99.7	118.4	155.8	218.1	336.5	504.8	1152.9	1190.3	1065.7
87.5°	31.2	31.2	37.4	37.4	43.6	49.9	56.1	74.8	130.9	130.9	124.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5
2.5°	6718.1	6718.1	6687.0	6699.4	6693.2	6680.7	6668.3	6687.0	6668.3	6624.7	6618.4
5°	6730.6	6718.1	6668.3	6662.1	6643.4	6618.4	6587.3	6599.7	6568.6	6531.2	6524.9
7.5°	6736.8	6711.9	6643.4	6618.4	6581.0	6531.2	6481.3	6481.3	6437.7	6400.3	6394.1
10°	6724.4	6693.2	6599.7	6549.9	6481.3	6406.5	6338.0	6319.3	6269.4	6225.8	6225.8
12.5°	6730.6	6687.0	6568.6	6487.6	6394.1	6300.6	6213.3	6188.4	6144.8	6101.2	6094.9
15°	6768.0	6705.7	6556.1	6450.2	6313.1	6207.1	6113.6	6094.9	6057.5	6026.4	6026.4
17.5°	6805.4	6724.4	6537.4	6387.8	6219.6	6101.2	6013.9	6013.9	5989.0	5970.3	5970.3
20°	6824.1	6730.6	6500.0	6300.6	6107.4	5982.8	5901.7	5914.2	5908.0	5901.7	5901.7
22.5°	6867.7	6743.1	6468.9	6219.6	5989.0	5858.1	5783.3	5802.0	5795.8	5795.8	5802.0
25°	6936.3	6774.2	6443.9	6144.8	5876.8	5733.5	5652.5	5664.9	5664.9	5664.9	5664.9
27.5°	7029.7	6836.5	6437.7	6076.2	5764.6	5602.6	5502.9	5502.9	5478.0	5484.2	5490.4
30°	7173.1	6955.0	6450.2	6013.9	5646.2	5440.6	5322.2	5303.5	5297.2	5309.7	5315.9
32.5°	7347.6	7117.0	6524.9	5970.3	5521.6	5259.8	5110.3	5104.0	5085.3	5085.3	5085.3
35°	7565.7	7272.8	6593.5	5964.1	5396.9	5066.6	4904.6	4885.9	4842.3	4823.6	4823.6
37.5°	7846.1	7515.8	6674.5	5920.4	5291.0	4879.7	4686.5	4624.2	4574.3	4568.1	4568.1
40°	8188.9	7790.1	6792.9	5870.6	5178.8	4686.5	4431.0	4325.0	4331.3	4356.2	4356.2
42.5°	8594.0	8126.6	6942.5	5845.7	5016.8	4487.1	4131.8	4007.2	4050.8	4075.8	4082.0
45°	9067.6	8525.4	7110.8	5814.5	4867.2	4262.7	3814.0	3658.2	3676.9	3683.1	3689.4
47.5°	9616.0	8967.9	7285.3	5789.6	4699.0	3982.3	3465.0	3259.4	3253.1	3215.7	3228.2
50°	10189.4	9435.3	7466.0	5745.9	4493.3	3652.0	3097.3	2854.3	2804.4	2748.3	2754.6
52.5°	10800.1	9915.2	7634.2	5677.4	4237.8	3315.4	2748.3	2486.6	2386.9	2324.6	2337.0
55°	11473.2	10407.5	7796.3	5571.4	3969.8	2978.9	2436.7	2168.8	2044.1	1994.3	2000.5
57.5°	12090.2	10881.1	7914.7	5440.6	3676.9	2673.5	2162.5	1900.8	1819.8	1813.5	1819.8
60°	12688.4	11280.0	7964.5	5259.8	3377.8	2393.1	1907.0	1707.6	1651.5	1682.7	1688.9
62.5°	13193.2	11535.5	7939.6	5016.8	3072.4	2125.1	1701.3	1558.0	1520.6	1582.9	1589.2
65°	13486.1	11616.5	7765.1	4667.8	2742.1	1863.4	1508.2	1352.4	1333.7	1371.0	1389.7
67.5°	13099.7	11111.7	7291.5	4187.9	2374.4	1620.3	1321.2	1196.6	1165.4	1196.6	1196.6
70°	11610.3	9628.5	6169.7	3427.6	1969.3	1383.5	1146.7	1059.4	1034.5	1059.4	1053.2
72.5°	9672.1	8008.2	4861.0	2673.5	1551.8	1165.4	997.1	916.1	891.2	866.3	853.8
75°	7503.4	6082.5	3527.3	1963.1	1171.6	934.8	835.1	760.3	698.0	722.9	710.5
77.5°	5496.7	4268.9	2499.0	1358.6	841.3	722.9	654.4	598.3	554.7	604.5	598.3
80°	3539.8	2760.8	1670.2	909.9	579.6	504.8	479.9	448.7	492.3	641.9	654.4
82.5°	2162.5	1751.2	997.1	592.0	380.2	336.5	311.6	311.6	504.8	554.7	560.9
85°	966.0	928.6	542.2	305.4	211.9	193.2	174.5	224.4	205.7	149.6	155.8
87.5°	155.8	162.0	118.4	105.9	81.0	81.0	62.3	43.6	31.2	18.7	18.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)